

GENEN39766-0100P1.TXT

SEQUENCE LISTING

<110> Ashkenazi, Avi J.
Fong, Sherman
Goddard, Audrey
Gurney, Austin L.
Napier, Mary A.
Tumas, Daniel
Van Lookren, Menno
Wood, William I.

<120> USE OF A33 ANTIGENS AND JAM-IT

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<150> US/10/265,542

<151> 2002-10-03

<150> PCT/US00/04414

<151> 2000-02-22

<150> PCT/US00/14042

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<150> US/09/254,465

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		20						25					30		
Ala	Gln	Ser	Asp	Val	Gln	Val	Pro	Glu	Asn	Glu	Ser	Ile	Lys	Leu	Thr
		35					40					45			
Cys	Thr	Tyr	Ser	Gly	Phe	Ser	Ser	Pro	Arg	Val	Glu	Trp	Lys	Phe	Val
	50					55					60				
Gln	Gly	Ser	Thr	Thr	Ala	Leu	Val	Cys	Tyr	Asn	Ser	Gln	Ile	Thr	Ala
65					70					75					80
Pro	Tyr	Ala	Asp	Arg	Val	Thr	Phe	Ser	Ser	Ser	Gly	Ile	Thr	Phe	Ser
			85						90					95	
Ser	Val	Thr	Arg	Lys	Asp	Asn	Gly	Glu	Tyr	Thr	Cys	Met	Val	Ser	Glu
			100					105					110		
Glu	Gly	Gly	Gln	Asn	Tyr	Gly	Glu	Val	Ser	Ile	His	Leu	Thr	Val	Leu
		115					120					125			
Val	Pro	Pro	Ser	Lys	Pro	Thr	Ile	Ser	Val	Pro	Ser	Val	Thr	Ile	
	130					135					140				
Gly	Asn	Arg	Ala	Val	Leu	Thr	Cys	Ser	Glu	His	Asp	Gly	Ser	Pro	Pro
145					150					155					160
Ser	Glu	Tyr	Ser	Trp	Phe	Lys	Asp	Gly	Ile	Ser	Met	Leu	Thr	Ala	Asp
			165					170						175	
Ala	Lys	Lys	Thr	Arg	Ala	Phe	Met	Asn	Ser	Ser	Phe	Thr	Ile	Asp	Pro
			180					185					190		
Lys	Ser	Gly	Asp	Leu	Ile	Phe	Asp	Pro	Val	Thr	Ala	Phe	Asp	Ser	Gly
		195					200					205			
Glu	Tyr	Tyr	Cys	Gln	Ala	Gln	Asn	Gly	Tyr	Gly	Thr	Ala	Met	Arg	Ser
	210					215					220				
Glu	Ala	Ala	His	Met	Asp	Ala	Val	Glu	Leu	Asn	Val	Gly	Gly	Ile	Val
225					230					235					240
Ala	Ala	Val	Leu	Val	Thr	Leu	Ile	Leu	Leu	Gly	Leu	Leu	Ile	Phe	Gly
			245					250						255	
Val	Trp	Phe	Ala	Tyr	Ser	Arg	Gly	Tyr	Phe	Glu	Thr	Thr	Lys	Lys	Gly
			260					265					270		
Thr	Ala	Pro	Gly	Lys	Lys	Val	Ile	Tyr	Ser	Gln	Pro	Ser	Thr	Arg	Ser
		275					280					285			
Glu	Gly	Glu	Phe	Lys	Gln	Thr	Ser	Ser	Phe	Leu	Val				
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<210> 11
<211> 1842
<212> DNA
<213> Homo sapiens

<400> 11

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ctggcattgg	gcagtgttac	agtgcactct	tctgaacctg	aagtcagaat	tcctgagaat	180
aatcctgtga	agttgtcctg	tgcctactcg	ggcttttctt	ctccccgtgt	ggagtgggaag	240
tttgaccaag	gagacaccac	cagactcggt	tgctataata	acaagatcac	agcttcctat	300
gaggaccggg	tgaccttctt	gccaaactgg	atcaccttca	agtccgtgac	acgggaagac	360
actgggacat	acacttgtat	ggtctctgag	gaaggcggca	acagctatgg	ggaggtcaag	420
gtcaagctca	tcgtgcttgt	gcctccatcc	aagcctacag	ttaacatccc	ctcctctgcc	480
accattggga	accgggcagt	gctgacatgc	tcagaacaag	atggttcccc	accttctgaa	540
tacacctggt	tcaaagatgg	gatagtgatg	cctacgaatc	ccaaaagcac	ccgtgccttc	600
agcaactctt	cctatgtcct	gaatcccaca	acaggagagc	tggtctttga	tcccctgtca	660
gcctctgata	ctggagaata	cagctgtgag	gcacggaatg	ggtatgggac	acccatgact	720

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cttg	taaccc	tg	attctcct	gg	aatcttg	gt	ttttggca	tc	tggtttgc	ct	atagccga	840
ggcc	actttg	ac	agaacaaa	ga	aagggact	tc	gagtaaga	ag	gtgattta	ca	gccagcct	900
agt	ccccgaa	gt	gaaggaga	att	caaacag	ac	ctcgtcat	tc	ctgggtgtg	ag	cctgggtcg	960
gct	caccgcc	tat	catctgc	att	tcctta	ct	caggtgct	act	ggactct	gg	ccccctgat	1020
gtct	gtagtt	tc	acaggatg	cct	tatttgt	ctt	ctacacc	cc	acagggcc	cc	tacttct	1080
tc	gatgtgt	tt	taataat	gt	cagctatg	tg	ccccatcc	tc	cttcatgc	cc	tccctccc	1140
tttc	ctacca	ct	gtgagtg	gc	ctggaact	tg	tttaaaagt	gt	ttattccc	cat	ttctttg	1200
ag	gatcagg	aa	ggaatcct	gg	gatgccca	tt	gacttccc	tt	ctaagtag	ac	agcaaaaa	1260
tgg	cgggggt	cg	caggaatc	tg	cactcaac	tg	ccccacctg	gct	ggcaggg	at	ctttgaat	1320
ag	gtatcttg	ag	cttggttc	tg	ggctcttt	cc	ttgtgtac	tg	acgaccag	gg	ccagctgt	1380
tct	agagtgg	ga	attagagg	ct	agagcggc	tg	aaatggtt	gt	ttggtgat	ga	actgggg	1440
tc	cttccatc	tct	ggggccc	act	ctcttct	gt	cttcccat	gg	gaagtgcc	act	gggatcc	1500
ctct	gccctg	tc	ctcctgaa	ta	caagctga	ct	gacattga	ct	gtgtctgt	gg	aaaatggg	1560
ag	ctcttggt	gt	ggagagca	tag	ttaaattt	tc	agagaact	tga	agcgaaa	agg	attttaa	1620
acc	gctgctc	taa	agaaaag	aaa	actggag	gct	ggggcgca	gt	ggctcacg	cc	tgtaatcc	1680
ca	gaggctga	gg	caggcgga	tc	acctgagg	tc	gggaggtc	gg	gatcagcc	tg	accaacat	1740
gg	agaaaccc	tg	ctggaaat	ac	agagttag	cc	aggcatgg	tg	gtgcatgc	ct	gtagtccc	1800
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<213> Artificial Sequence

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acac

20

<210> 15

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<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

<400> 15

tag

24

<210> 16
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 <220>
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 <210> 17
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 <220>
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 <400> 17
 actcagcagt ggtaggaaag 20

 <210> 18
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide probe

 <400> 18
 tatccctcca attgagcacc ctgg 24

 <210> 19
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide probe

 <400> 19
 gtcggaagac atcccaacaa g 21

 <210> 20
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 <213> Artificial Sequence

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 <223> synthetic oligonucleotide probe

 <400> 20
 cttcacaatg tcgctgtgct gctc 24

 <210> 21
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 <212> DNA
 <213> Artificial Sequence

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 <223> synthetic oligonucleotide probe

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<400> 21
agccaaatcc agcagctggc ttac

24

<210> 22
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 22
tggatgaccg gagccactac acgtgtgaag tcacctggca gactcctgat

50

<210> 23
<211> 260
<212> PRT
<213> Homo sapiens

<400> 23
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Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe
20 25 30
Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg
35 40 45
Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val
50 55 60
Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr Arg Glu Asp
65 70 75 80
Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly Asn Ser Tyr
85 90 95
Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro
100 105 110
Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val Leu
115 120 125
Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr Trp Phe
130 135 140
Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr Arg Ala Phe
145 150 155 160
Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu Leu Val Phe
165 170 175
Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg
180 185 190
Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg Met Glu Ala
195 200 205
Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu Val Thr Leu
210 215 220
Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala Tyr Ser Arg
225 230 235 240
Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys Lys Val Ile
245 250 255
Tyr Ser Gln Pro
260

<210> 24
<211> 268
<212> PRT
<213> Homo sapiens

<400> 24

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val Thr val Asp Ala Ile Ser val Glu Thr Pro Gln Asp Val Leu Arg
1      5      10      15
Ala Ser Gln Gly Lys Ser val Thr Leu Pro Cys Thr Tyr His Thr Ser
20      25      30
Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys Leu Leu Leu Thr
35      40      45
His Thr Glu Arg val val Ile Trp Pro Phe Ser Asn Lys Asn Tyr Ile
50      55      60
His Gly Glu Leu Tyr Lys Asn Arg val Ser Ile Ser Asn Asn Ala Glu
65      70      75      80
Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu Thr Met Ala Asp Asn
85      90      95
Gly Thr Tyr Glu Cys Ser val Ser Leu Met Ser Asp Leu Glu Gly Asn
100     105     110
Thr Lys Ser Arg val Arg Leu Leu val Leu val Pro Pro Ser Lys Pro
115     120     125
Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly Asn Asn Ile Gln Leu
130     135     140
Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro Gln Tyr Ser Trp Lys
145     150     155     160
Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro Ala Ser
165     170     175
Gly Gln Pro val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser Gly Tyr
180     185     190
Tyr Ile Cys Thr Ser Ser Asn Glu Gly Thr Gln Phe Cys Asn Ile
195     200     205
Thr val Ala val Arg Ser Pro Ser Met Asn val Ala Leu Tyr val Gly
210     215     220
Ile Ala val Gly val val Ala Ala Leu Ile Ile Ile Gly Ile Ile Ile
225     230     235     240
Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp Lys Glu
245     250     255
Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro
260     265

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<210> 25
 <211> 263
 <212> PRT
 <213> Homo sapiens

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<400> 25
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20      25      30
Ser Gly Phe Ser Ser Pro Arg val Glu Trp Lys Phe Asp Gln Gly Asp
35      40      45
Thr Thr Arg Leu val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu
50      55      60
Asp Arg val Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser val Thr
65      70      75      80
Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met val Ser Glu Glu Gly Gly
85      90      95
Asn Ser Tyr Gly Glu val Lys val Lys Leu Ile val Leu val Pro Pro
100     105     110
Ser Lys Pro Thr val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg
115     120     125
Ala val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr
130     135     140
Thr Trp Phe Lys Asp Gly Ile val Met Pro Thr Asn Pro Lys Ser Thr
145     150     155     160
Arg Ala Phe Ser Asn Ser Ser Tyr val Leu Asn Pro Thr Thr Gly Glu

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				165				170					175			
Leu	Val	Phe	Asp	Pro	Leu	Ser	Ala	Ser	Asp	Thr	Gly	Glu	Tyr	Ser	Cys	
			180					185					190			
Glu	Ala	Arg	Asn	Gly	Tyr	Gly	Thr	Pro	Met	Thr	Ser	Asn	Ala	Val	Arg	
		195					200					205				
Met	Glu	Ala	Val	Glu	Arg	Asn	Val	Gly	Val	Ile	Val	Ala	Ala	Val	Leu	
	210					215					220					
Val	Thr	Leu	Ile	Leu	Leu	Gly	Ile	Leu	Val	Phe	Gly	Ile	Trp	Phe	Ala	
225				230						235					240	
Tyr	Ser	Arg	Gly	His	Phe	Asp	Arg	Thr	Lys	Lys	Gly	Thr	Ser	Ser	Lys	
				245					250					255		
Lys	Val	Ile	Tyr	Ser	Gln	Pro										
			260													

<210> 26
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400>	26															
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Gln	Asp	Val	Leu	Arg	Ala	Ser	Gln	Gly	Lys	Ser	Val	Thr	Leu	Pro	Cys	
		20					25					30				
Thr	Tyr	His	Thr	Ser	Thr	Ser	Ser	Arg	Glu	Gly	Leu	Ile	Gln	Trp	Asp	
		35				40					45					
Lys	Leu	Leu	Leu	Thr	His	Thr	Glu	Arg	Val	Val	Ile	Trp	Pro	Phe	Ser	
	50				55						60					
Asn	Lys	Asn	Tyr	Ile	His	Gly	Glu	Leu	Tyr	Lys	Asn	Arg	Val	Ser	Ile	
65				70					75						80	
Ser	Asn	Asn	Ala	Glu	Gln	Ser	Asp	Ala	Ser	Ile	Thr	Ile	Asp	Gln	Leu	
			85					90					95			
Thr	Met	Ala	Asp	Asn	Gly	Thr	Tyr	Glu	Cys	Ser	Val	Ser	Leu	Met	Ser	
		100						105					110			
Asp	Leu	Glu	Gly	Asn	Thr	Lys	Ser	Arg	Val	Arg	Leu	Leu	Val	Leu	Val	
	115					120					125					
Pro	Pro	Ser	Lys	Pro	Glu	Cys	Gly	Ile	Glu	Gly	Glu	Thr	Ile	Ile	Gly	
	130				135					140						
Asn	Asn	Ile	Gln	Leu	Thr	Cys	Gln	Ser	Lys	Glu	Gly	Ser	Pro	Thr	Pro	
145				150					155						160	
Gln	Tyr	Ser	Trp	Lys	Arg	Tyr	Asn	Ile	Leu	Asn	Gln	Glu	Gln	Pro	Leu	
			165					170						175		
Ala	Gln	Pro	Ala	Ser	Gly	Gln	Pro	Val	Ser	Leu	Lys	Asn	Ile	Ser	Thr	
		180						185					190			
Asp	Thr	Ser	Gly	Tyr	Tyr	Ile	Cys	Thr	Ser	Ser	Asn	Glu	Glu	Gly	Thr	
		195					200					205				
Gln	Phe	Cys	Asn	Ile	Thr	Val	Ala	Val	Arg	Ser	Pro	Ser	Met	Asn	Val	
	210					215					220					
Ala	Leu	Tyr	Val	Gly	Ile	Ala	Val	Gly	Val	Val	Ala	Ala	Leu	Ile	Ile	
225					230					235					240	
Ile	Gly	Ile	Ile	Ile	Tyr	Cys	Cys	Cys	Cys	Arg	Gly	Lys	Asp	Asp	Asn	
				245				250					255			
Thr	Glu	Asp	Lys	Glu	Asp	Ala	Arg	Pro	Asn	Arg	Glu	Ala	Tyr	Glu	Glu	
			260					265					270			
Pro																

<210> 27
 <211> 413
 <212> DNA
 <213> Homo sapiens

GENEN39766-0100P1.TXT

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aggccaaaac ctggaagagg atacagtcac tctggaagta ttagtggctc cagcagttcc 120
atcatgtgaa gtaccctctt ctgctctgag tggaaactgtg gtagagctac gatgtcaaga 180
caaagaaggg aatccagctc ctgaatacac atggttttaag gatggcatcc gtttgctaga 240
aaatcccaga cttggctccc aaagcaccaa cagctcatac acaatgaata caaaaactgg 300
aactctgcaa ttttaatactg tttccaaact ggacactgga gaatattcct gtgaagcccg 360
caattctgtt ggatatcgca ggtgtcctgg ggaaacgaat gcaagtagat gat 413

<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 28
atcgttggtga agttagtgtcc cc 22

<210> 29
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 29
acctgagata tccaacagaa ttg 23

<210> 30
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 30
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<210> 31
<211> 310
<212> PRT
<213> Homo sapiens

<400> 31
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Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30
Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
35 40 45
Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60
Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65 70 75 80
Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
85 90 95
Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
100 105 110

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Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
115 120 125
Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
130 135 140
Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145 150 155 160
Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
165 170 175
Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
180 185 190
Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
195 200 205
Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
210 215 220
Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225 230 235 240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
245 250 255
Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
260 265 270
Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
275 280 285
Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
290 295 300
Lys Ser Ser Phe Val Ile
305 310

<210> 32
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<212> PRT
<213> Homo sapiens

<400> 32
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20 25 30
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35 40 45
Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
50 55 60
Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65 70 75 80
Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85 90 95
Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
100 105 110
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
115 120 125
Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
130 135 140
Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145 150 155 160
Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
165 170 175
Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
180 185 190
Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
195 200 205
Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
210 215 220
Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys

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225	Thr	Glu	Ala	Pro	Thr	Thr	Met	Thr	Tyr	Pro	Leu	Lys	Ala	Thr	Ser	Thr
					245					250					255	
Val	Lys	Gln	Ser	Trp	Asp	Trp	Thr	Thr	Thr	Asp	Met	Asp	Gly	Tyr	Leu	Gly
			260						265					270		
Glu	Thr	Ser	Ala	Gly	Pro	Gly	Lys	Ser	Leu	Pro	Val	Phe	Ala	Ile	Ile	
		275					280					285				
Leu	Ile	Ile	Ser	Leu	Cys	Cys	Met	Val	Val	Phe	Thr	Met	Ala	Tyr	Ile	
	290					295					300					
Met	Leu	Cys	Arg	Lys	Thr	Ser	Gln	Gln	Glu	His	Val	Tyr	Glu	Ala	Ala	
	305				310					315					320	
Arg	Ala	His	Ala	Arg	Glu	Ala	Asn	Asp	Ser	Gly	Glu	Thr	Met	Arg	Val	
				325					330					335		
Ala	Ile	Phe	Ala	Ser	Gly	Cys	Ser	Ser	Asp	Glu	Pro	Thr	Ser	Gln	Asn	
			340					345					350			
Leu	Gly	Asn	Asn	Tyr	Ser	Asp	Glu	Pro	Cys	Ile	Gly	Gln	Glu	Tyr	Gln	
		355					360					365				
Ile	Ile	Ala	Gln	Ile	Asn	Gly	Asn	Tyr	Ala	Arg	Leu	Leu	Asp	Thr	Val	
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Pro	Leu	Asp	Tyr	Glu	Phe	Leu	Ala	Thr	Glu	Gly	Lys	Ser	Val	Cys		
	385				390					395						

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 <212> PRT
 <213> Homo sapiens

<400> 33

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			20					25					30		
Trp	Lys	Gly	Asp	Val	Asn	Leu	Pro	Cys	Thr	Tyr	Asp	Pro	Leu	Gln	Gly
		35				40					45				
Tyr	Thr	Gln	Val	Leu	Val	Lys	Trp	Leu	Val	Gln	Arg	Gly	Ser	Asp	Pro
	50					55					60				
Val	Thr	Ile	Phe	Leu	Arg	Asp	Ser	Ser	Gly	Asp	His	Ile	Gln	Gln	Ala
	65				70					75					80
Lys	Tyr	Gln	Gly	Arg	Leu	His	Val	Ser	His	Lys	Val	Pro	Gly	Asp	Val
				85					90					95	
Ser	Leu	Gln	Leu	Ser	Thr	Leu	Glu	Met	Asp	Asp	Arg	Ser	His	Tyr	Thr
			100					105					110		
Cys	Glu	Val	Thr	Trp	Gln	Thr	Pro	Asp	Gly	Asn	Gln	Val	Val	Arg	Asp
		115					120					125			
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Thr	Lys	Thr	Glu	Ala	Pro	Thr	Thr	Met	Thr	Tyr	Pro	Leu	Lys	Ala	Thr
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Leu	Gly	Glu	Thr	Ser	Ala	Gly	Pro	Gly	Lys	Ser	Leu	Pro	Val	Phe	Ala
			180					185					190		
Ile	Ile	Leu	Ile	Ile	Ser	Leu	Cys	Cys	Met	Val	Val	Phe	Thr	Met	Ala
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Ala	Ala	Arg	Ala	His	Ala	Arg	Glu	Ala	Asn	Asp	Ser	Gly	Glu	Thr	Met
	225				230					235					240
Arg	Val	Ala	Ile	Phe	Ala	Ser	Gly	Cys	Ser	Ser	Asp	Glu	Pro	Thr	Ser
				245					250					255	
Gln	Asn	Leu	Gly	Asn	Asn	Tyr	Ser	Asp	Glu	Pro	Cys	Ile	Gly	Gln	Glu
			260					265					270		

GENEN39766-0100P1.TXT
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Cys
305

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35 40 45
Tyr Arg Gln Val Leu Val Lys Trp Leu Val Arg His Gly Ser Asp Ser
50 55 60
Val Thr Ile Phe Leu Arg Asp Ser Thr Gly Asp His Ile Gln Gln Ala
65 70 75 80
Lys Tyr Arg Gly Arg Leu Lys Val Ser His Lys Val Pro Gly Asp Val
85 90 95
Ser Leu Gln Ile Asn Thr Leu Gln Met Asp Asp Arg Asn His Tyr Thr
100 105 110
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Ile Arg Asp
115 120 125
Lys Ile Ile Glu Leu Arg Val Arg Lys Tyr Asn Pro Pro Arg Ile Asn
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Thr Glu Ala Pro Thr Thr Leu His Ser Ser Leu Glu Ala Thr Thr Ile
145 150 155 160
Met Ser Ser Thr Ser Asp Leu Thr Thr Asn Gly Thr Gly Lys Leu Glu
165 170 175
Glu Thr Ile Ala Gly Ser Gly Arg Asn Leu Pro Ile Phe Ala Ile Ile
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Phe Ile Ile Ser Leu Cys Cys Ile Val Ala Val Thr Ile Pro Tyr Ile
195 200 205
Leu Phe Arg Cys Arg Thr Phe Gln Gln Glu Tyr Val Tyr Gly Val Ser
210 215 220
Arg Val Phe Ala Arg Lys Thr Ser Asn Ser Glu Glu Thr Thr Arg Val
225 230 235 240
Thr Thr Ile Ala Thr Asp Glu Pro Asp Ser Gln Ala Leu Ile Ser Asp
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19